

AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.111

Serial No.: 09/491,110

Docket: 450.129US2

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Filed: January 25, 2000

Title: POINTING DEVICE WITH ABSOLUTE AND RELATIVE POSITIONING CAPABILITY

a movable control stick;

a first gradient having a plurality of positions uniquely varying in intensity level of a first color, the first gradient operatively coupled to the control stick such that movement of the control stick on a first axis causes corresponding movement of the first gradient;

a fixed first sensor positioned over the first gradient to detect the intensity level of the position underneath the first sensor;

C2
Cmld a second gradient having a plurality of positions uniquely varying in intensity level of a second color, the second gradient operatively coupled to the control stick such that movement of the control stick on a second axis causes corresponding movement of the second gradient;

a fixed second sensor positioned over the second gradient to detect the intensity level of the position underneath the second sensor, and:

such that the intensity level detected by the first sensor and the intensity level detected by the second sensor relate to a unique position of the control stick and such control stick position information is communicated.

39. (Twice Amended) A pointing device comprising:

a housing; and,

C3
Cmt a sensor disposed within the housing and positionable over a first gradient having a first color transposed over a second gradient having a second color, each gradient having a plurality of positions uniquely varying in intensity level, the sensor detecting the intensity level of the first gradient and the intensity level of the second gradient of the position underneath the sensor, such that the detected intensity level of the first gradient and the detected intensity level of the second gradient relates to a unique position of the device and information relative to such position is communicated.

40. (Twice Amended) A pointing device comprising: /

a housing;

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C3 could
a first sensor disposed within the housing and positionable over a first gradient having a plurality of positions uniquely varying in intensity level, the first gradient substantially covering a surface, the first sensor detecting the intensity level of the position underneath the first sensor; and,

a second sensor disposed within the housing and positionable over a second gradient having a plurality of positions uniquely varying in intensity level, the second gradient substantially covering the surface, the second sensor detecting the intensity level of the position underneath the second sensor, such that the intensity level detected by the first sensor and the intensity level detected by the second sensor relates to a unique position of the device and information relative to such position is communicated.

51. (Twice Amended) A pointing device comprising:

a housing;

C4
a first sensor disposed within the housing and positionable over a first surface, the first surface having a plurality of uniquely coded positions arranged in a first gradient, the first gradient substantially covering the surface, the first sensor to detect the uniquely coded position underneath the first sensor;

a second sensor disposed within the housing and positionable over a second surface, the surface having a plurality of uniquely coded positions arranged in a second gradient, the second gradient substantially covering the second surface, the second sensor to detect the uniquely coded position underneath the second sensor: and

such that the position detected by the first sensor and the position detected by the second sensor relates to a unique position of the device and information relative to such position is communicated.